

FCC GSM Test Data

General Description of EUT	
Product Name:	Z1 Roma JR
Test Model:	Z1 Roma JR
Sample ID:	RW-C-202305-0096-1-2#
Environmental Conditions	
Temperature:	23.2℃
Relative Humidity:	51%
Test Voltage:	DC3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202305-0096-21.	

Appendix A: Conducted Output Power Data

Test Result

Band	Channel	PCL	Conducted Power (dBm)	Limit(dBm)	Verdict
GSM850	128	5	33.57	38.45	PASS
GSM850	190	5	33.59	38.45	PASS
GSM850	251	5	33.64	38.45	PASS
GSM1900	512	0	29.92	33.00	PASS
GSM1900	661	0	30.19	33.00	PASS
GSM1900	810	0	30.77	33.00	PASS

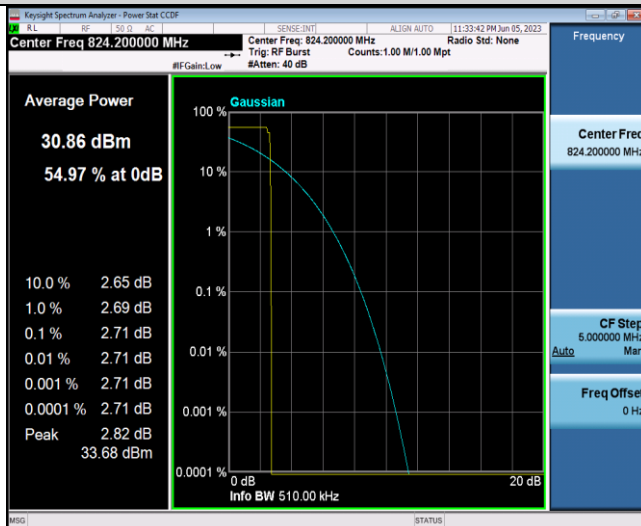
Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

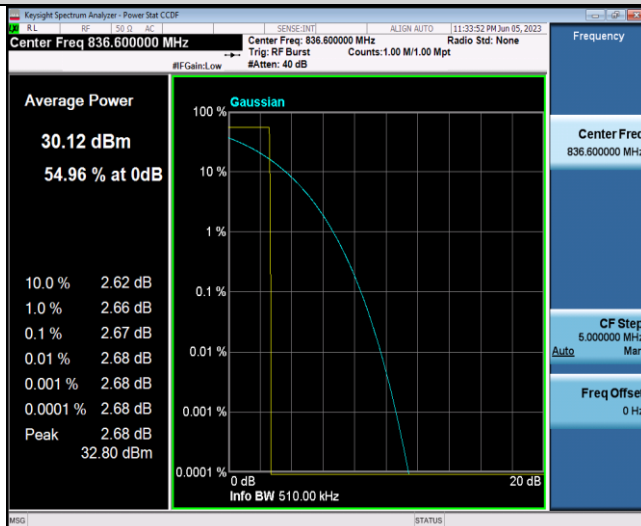
Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	128	5	2.71	13	PASS
GSM850	190	5	2.67	13	PASS
GSM850	251	5	3.11	13	PASS
GSM1900	512	0	2.69	13	PASS
GSM1900	661	0	2.7	13	PASS
GSM1900	810	0	2.71	13	PASS

Test Graphs

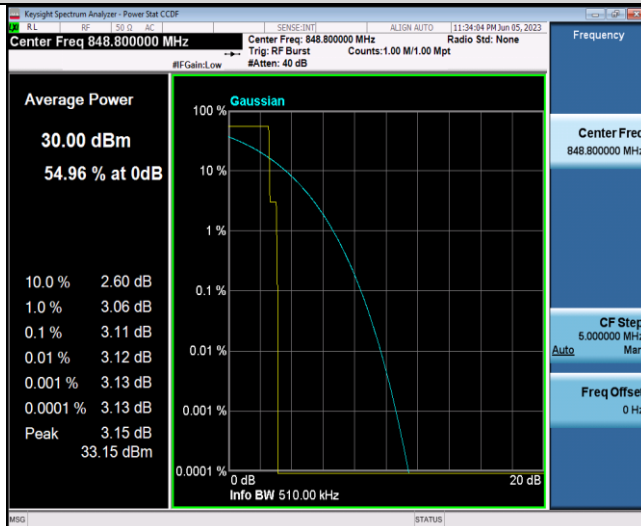
GSM850-128



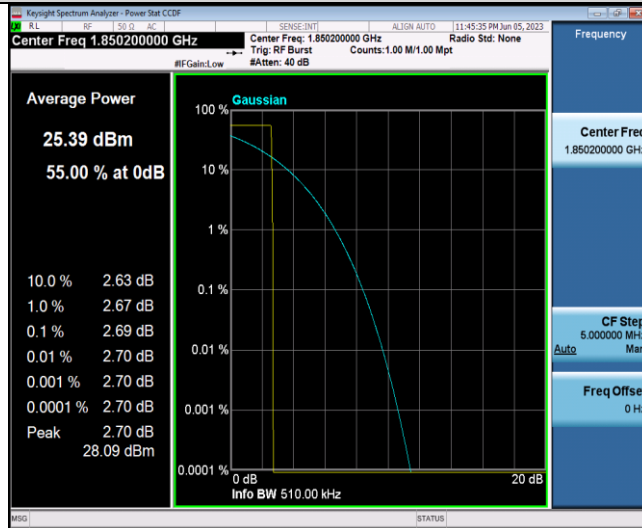
GSM850-190



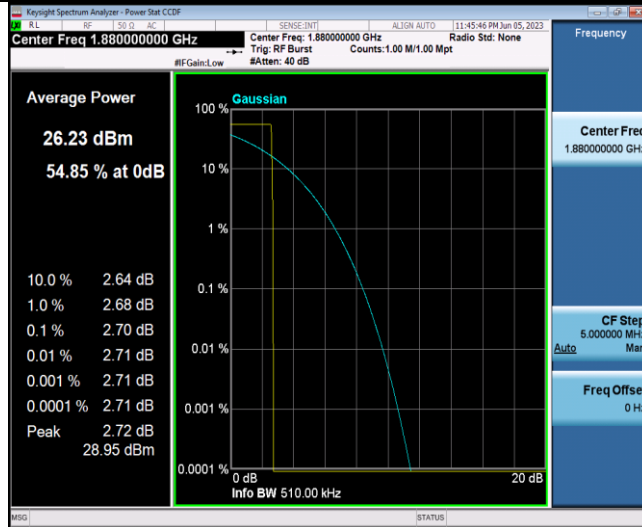
GSM850-251



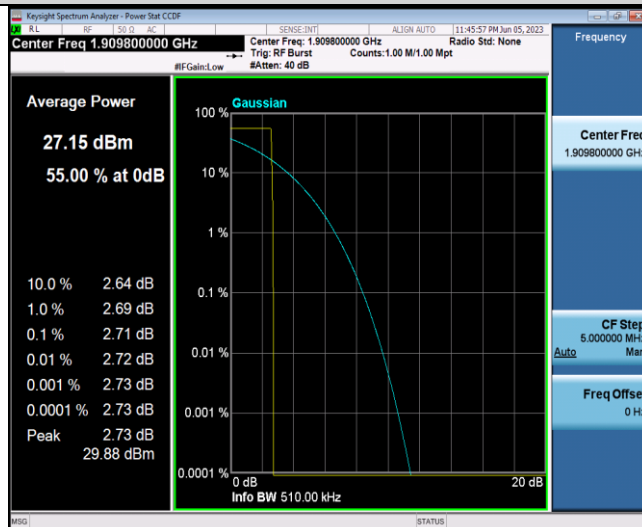
GSM1900-512



GSM1900-661



GSM1900-810



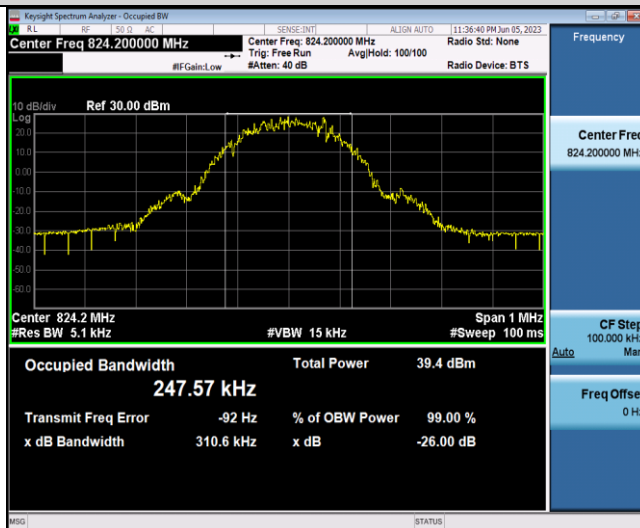
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

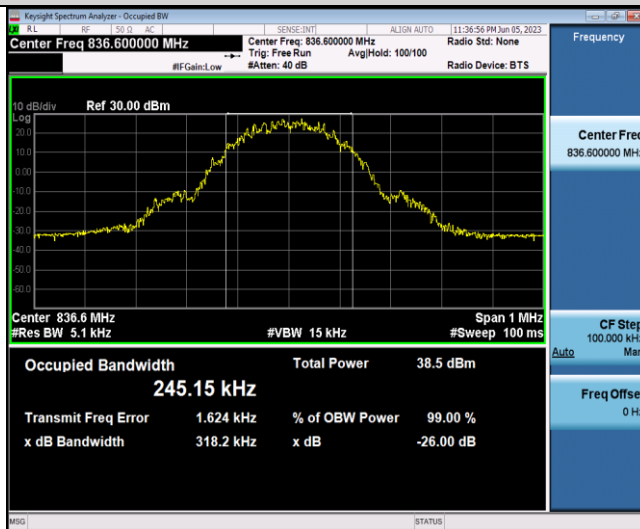
Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	5	0.24757	0.3106	---	PASS
GSM850	190	5	0.24515	0.3182	---	PASS
GSM850	251	5	0.24386	0.3140	---	PASS
GSM1900	512	0	0.24841	0.3206	---	PASS
GSM1900	661	0	0.24481	0.3148	---	PASS
GSM1900	810	0	0.24444	0.3177	---	PASS

Test Graphs

GSM850-128



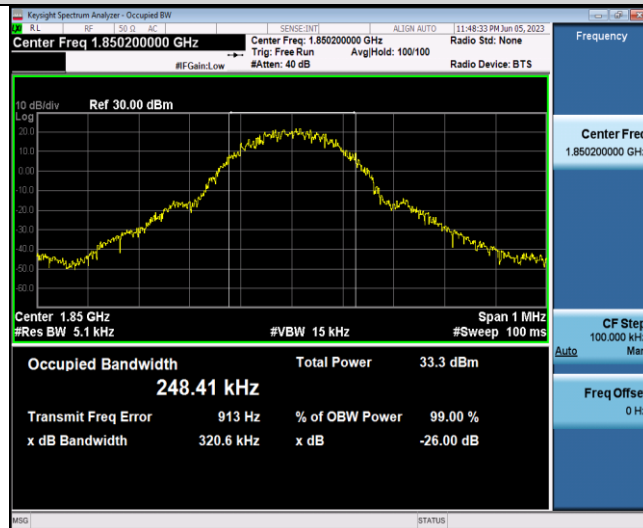
GSM850-190



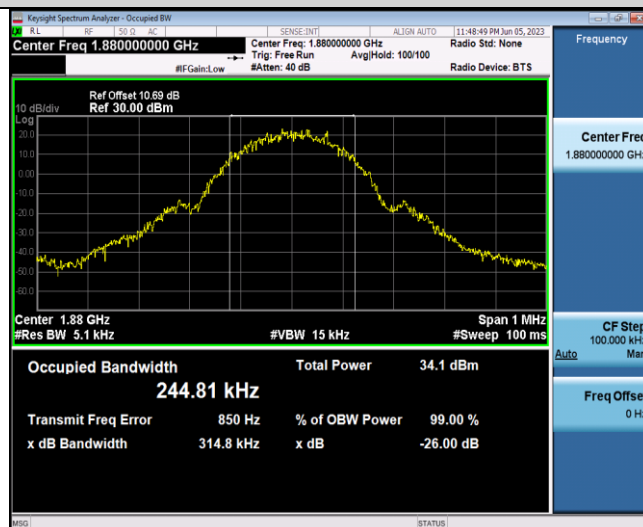
GSM850-251



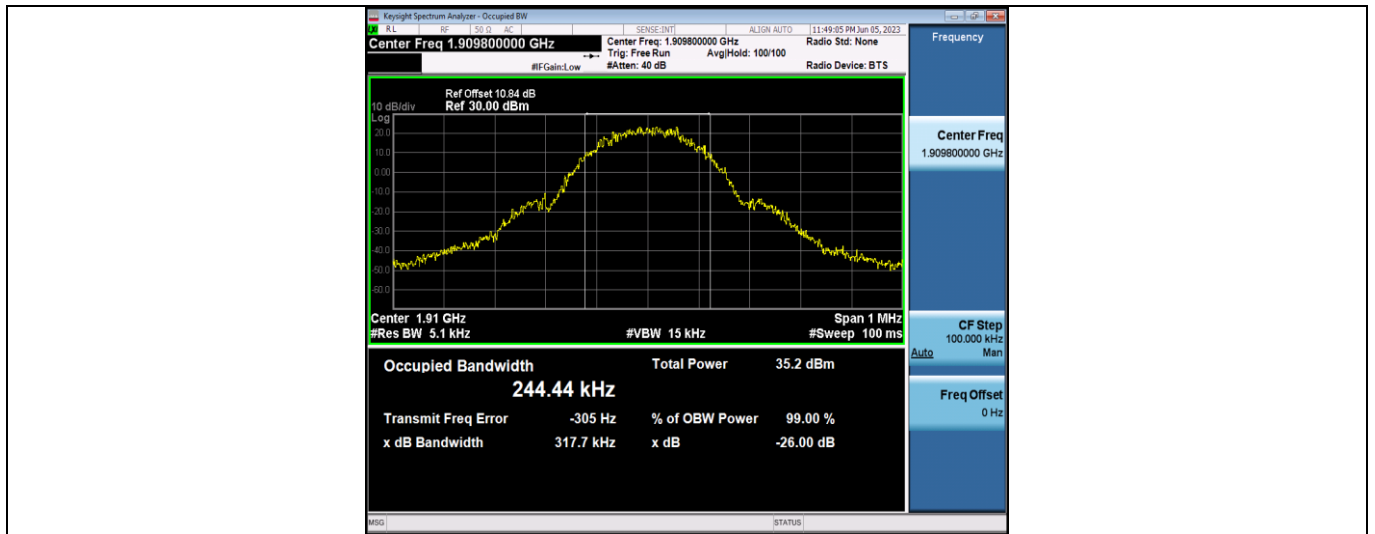
GSM1900-512



GSM1900-661



GSM1900-810



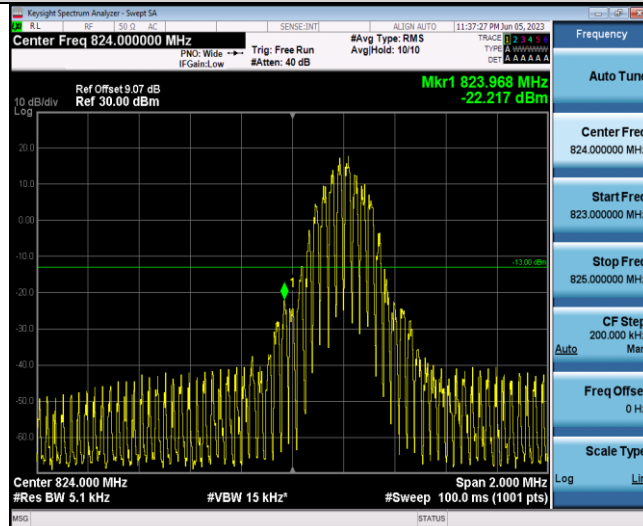
Appendix D: Band Edge

Test Result

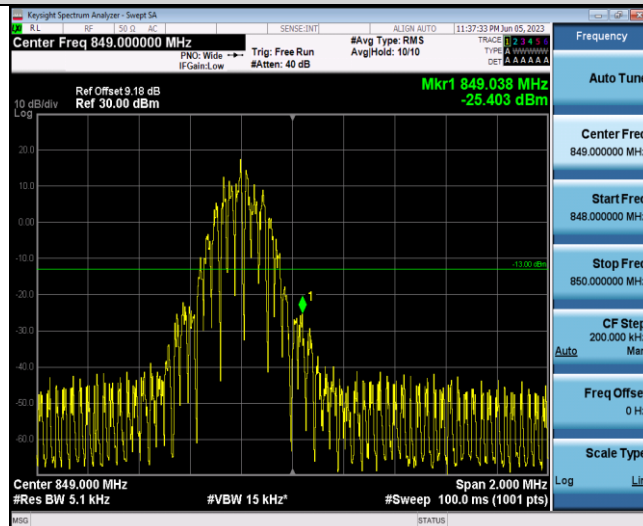
Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.97	-22.22	-13	PASS
GSM850	251	5	849.04	-25.40	-13	PASS
GSM1900	512	0	1849.98	-25.50	-13	PASS
GSM1900	810	0	1910.02	-21.86	-13	PASS

Test Graphs

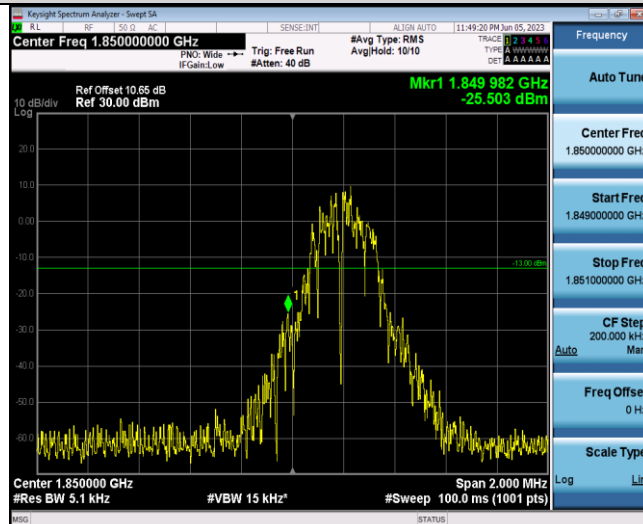
GSM850-128



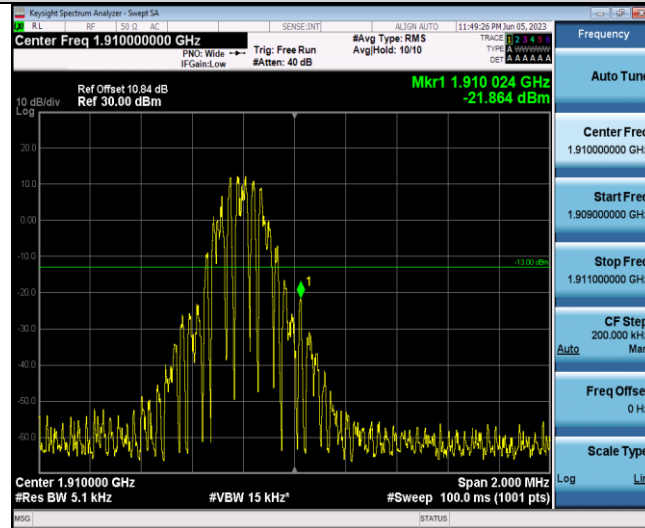
GSM850-251



GSM1900-512



GSM1900-810



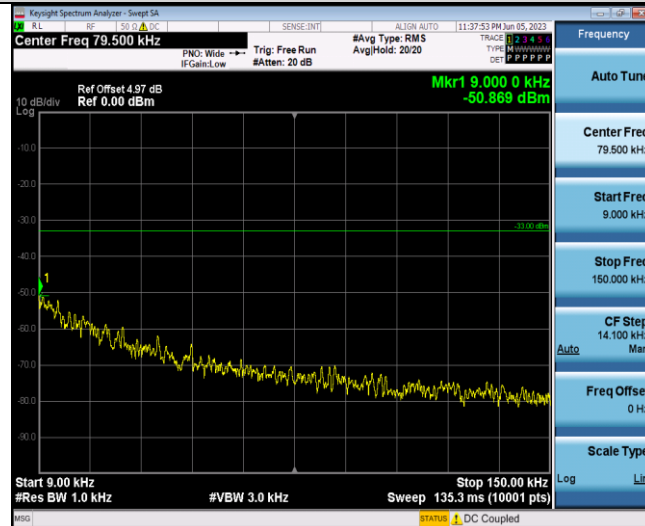
Appendix E: Conducted Spurious Emission

Test Result

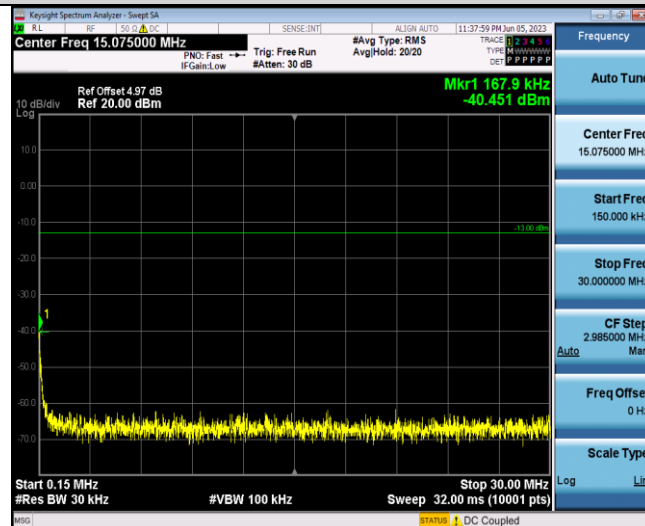
Band	Channel	PCL	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	5	0.009~0.15MHz	0.01	-50.87	-33	PASS
GSM850	128	5	0.15~30MHz	0.17	-40.45	-13	PASS
GSM850	128	5	30~1000MHz	525.9	-44.45	-13	PASS
GSM850	128	5	1000~10000MHz	1697.8	-32.35	-13	PASS
GSM850	190	5	0.009~0.15MHz	0.01	-48.99	-33	PASS
GSM850	190	5	0.15~30MHz	0.15	-38.84	-13	PASS
GSM850	190	5	30~1000MHz	706.87	-44.37	-13	PASS
GSM850	190	5	1000~10000MHz	1697.2	-32.49	-13	PASS
GSM850	251	5	0.009~0.15MHz	0.01	-48.84	-33	PASS
GSM850	251	5	0.15~30MHz	0.16	-40.34	-13	PASS
GSM850	251	5	30~1000MHz	261.25	-44.68	-13	PASS
GSM850	251	5	1000~10000MHz	1697.8	-32.01	-13	PASS
GSM1900	512	0	0.009~0.15MHz	0.01	-50.43	-43	PASS
GSM1900	512	0	0.15~30MHz	0.15	-40.48	-23	PASS
GSM1900	512	0	30~1000MHz	658.88	-45.55	-13	PASS
GSM1900	512	0	1000~18000MHz	17663.97	-15.71	-13	PASS
GSM1900	661	0	0.009~0.15MHz	0.01	-51.94	-43	PASS
GSM1900	661	0	0.15~30MHz	0.15	-38.82	-23	PASS
GSM1900	661	0	30~1000MHz	894.98	-44.66	-13	PASS
GSM1900	661	0	1000~18000MHz	17792.03	-16.38	-13	PASS
GSM1900	810	0	0.009~0.15MHz	0.01	-50.67	-43	PASS
GSM1900	810	0	0.15~30MHz	0.16	-38.5	-23	PASS
GSM1900	810	0	30~1000MHz	947.62	-45.27	-13	PASS
GSM1900	810	0	1000~18000MHz	17671.9	-15.64	-13	PASS

Test Graphs

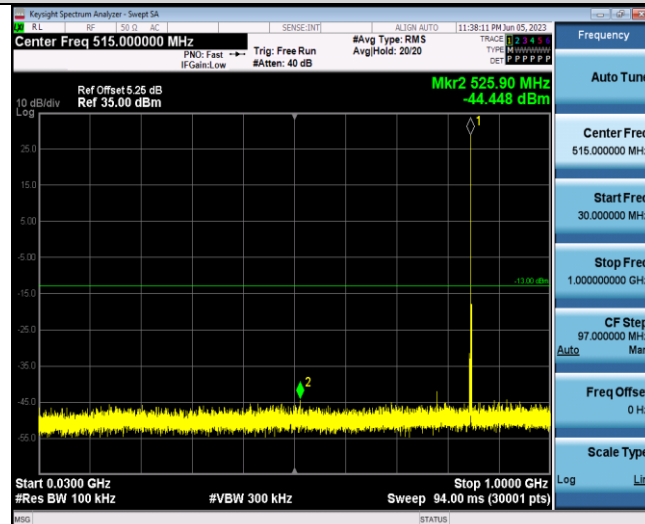
GSM850-128-0.009~0.15MHz



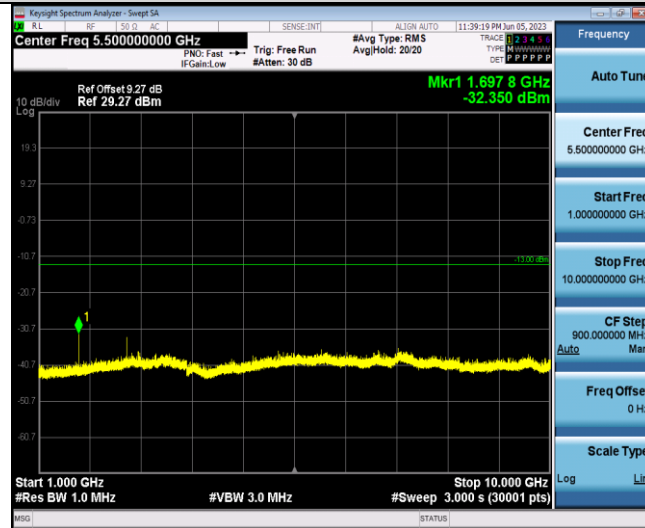
GSM850-128-0.15~30MHz



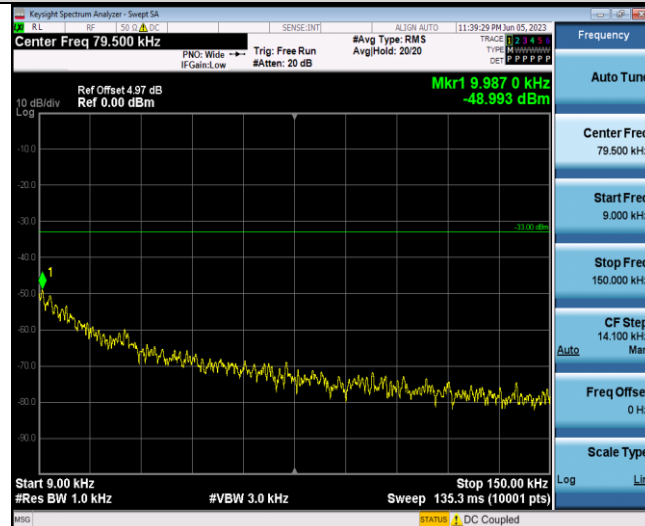
GSM850-128-30~1000MHz



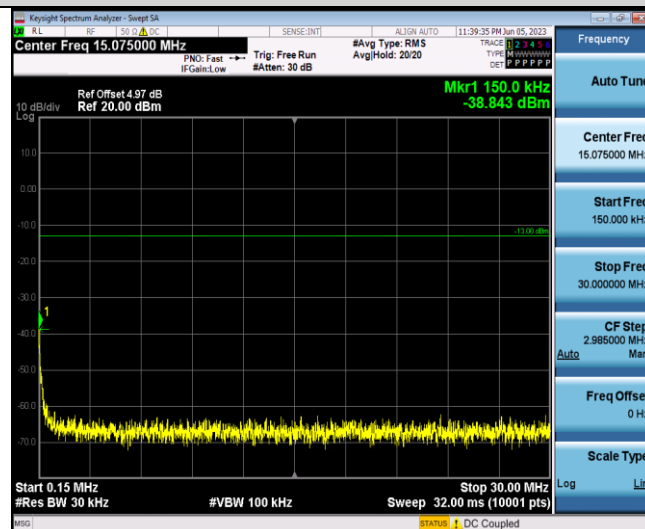
GSM850-128-1000~10000MHz



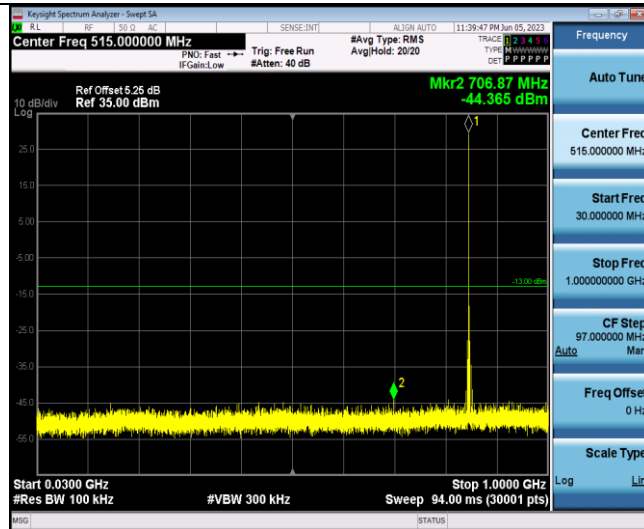
GSM850-190-0.009~0.15MHz



GSM850-190-0.15~30MHz



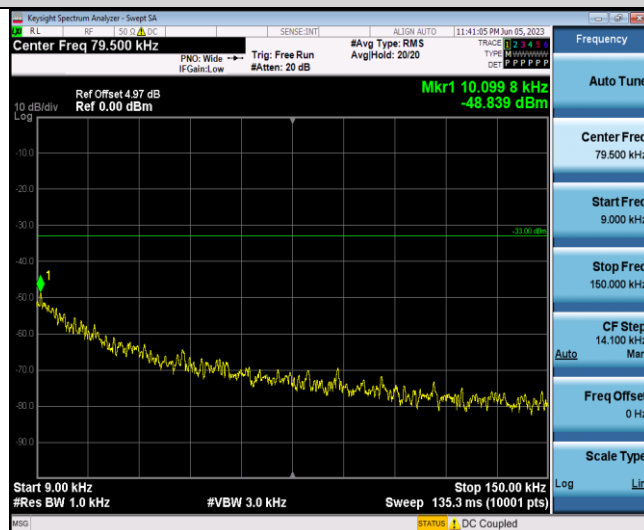
GSM850-190-30~1000MHz



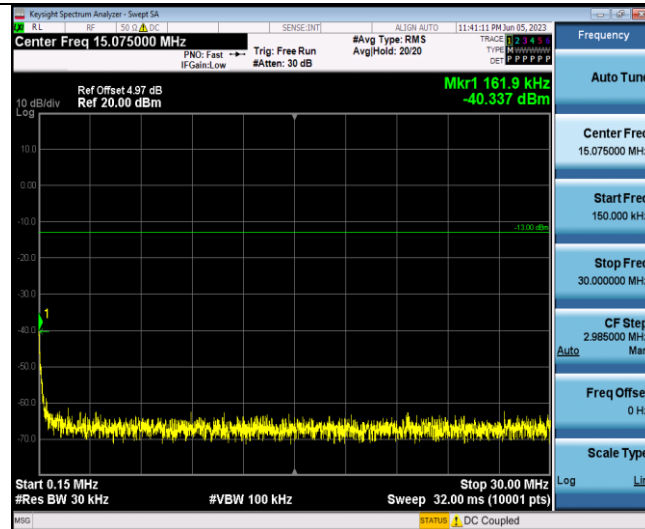
GSM850-190-1000~10000MHz



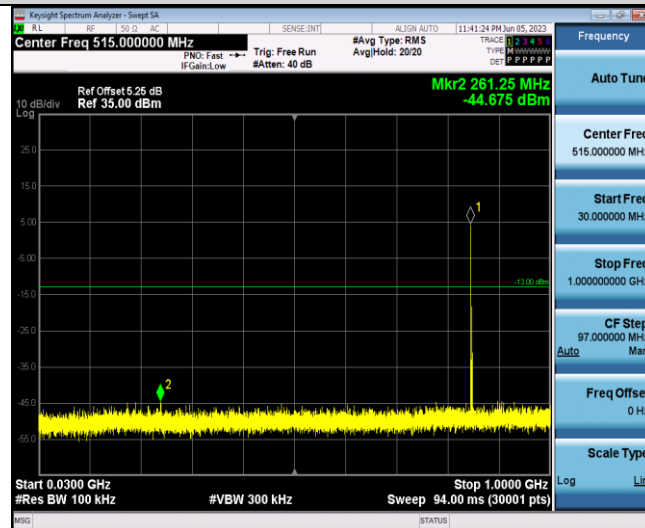
GSM850-251-0.009~0.15MHz



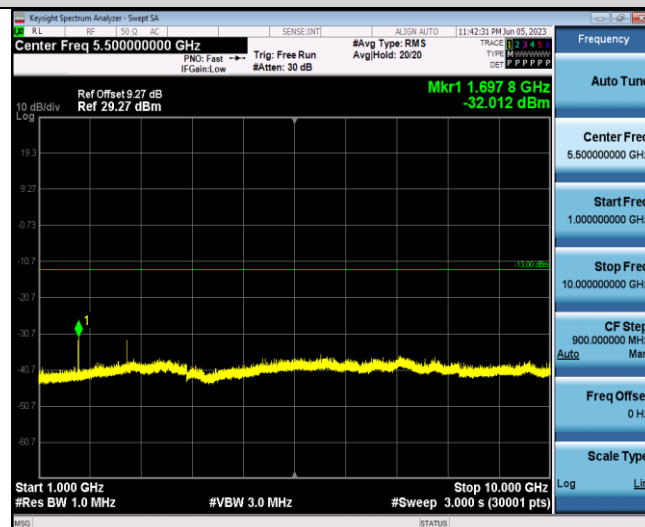
GSM850-251-0.15~30MHz



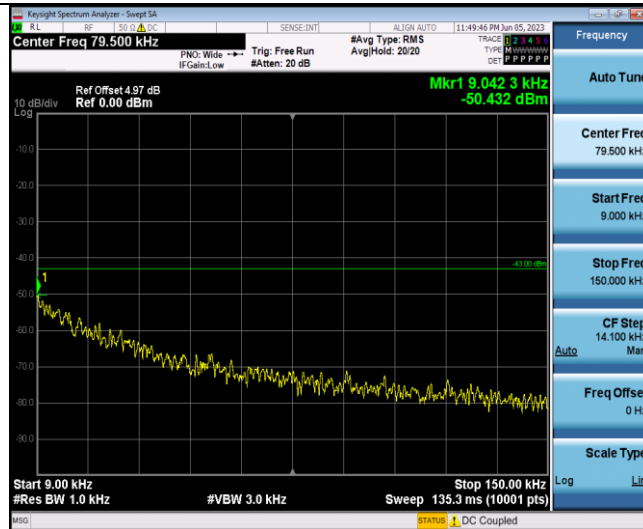
GSM850-251-30~1000MHz



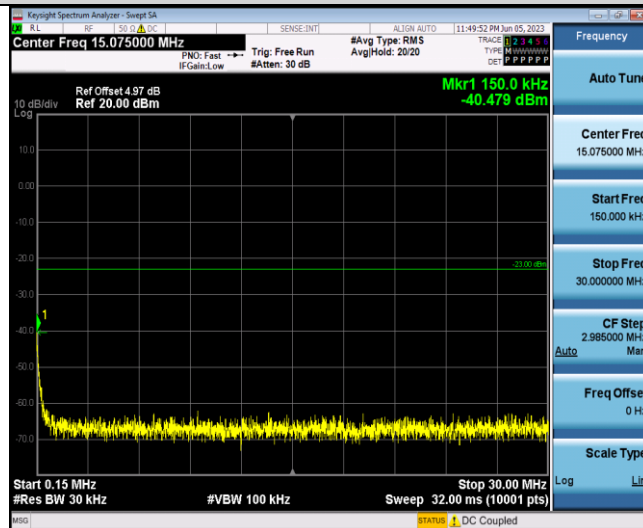
GSM850-251-1000~10000MHz



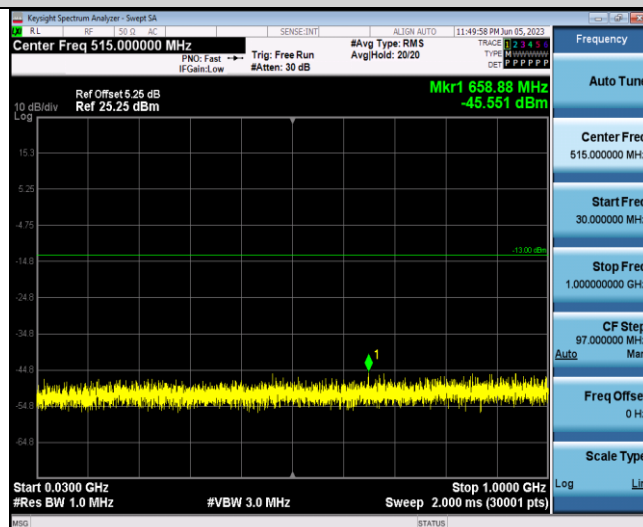
GSM1900-512-0.009~0.15MHz



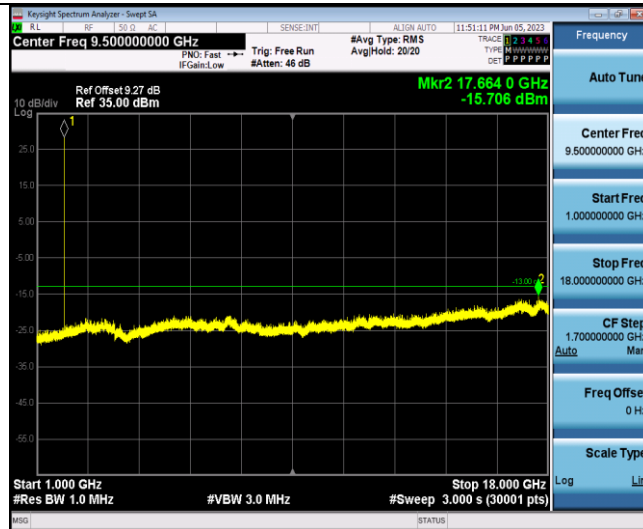
GSM1900-512-0.15~30MHz



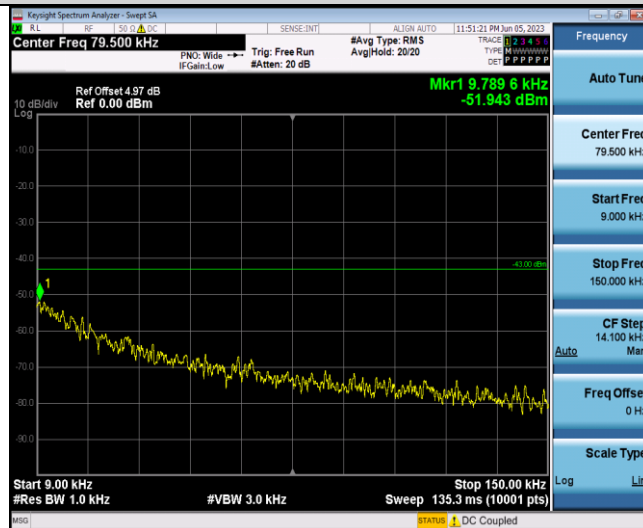
GSM1900-512-30~1000MHz



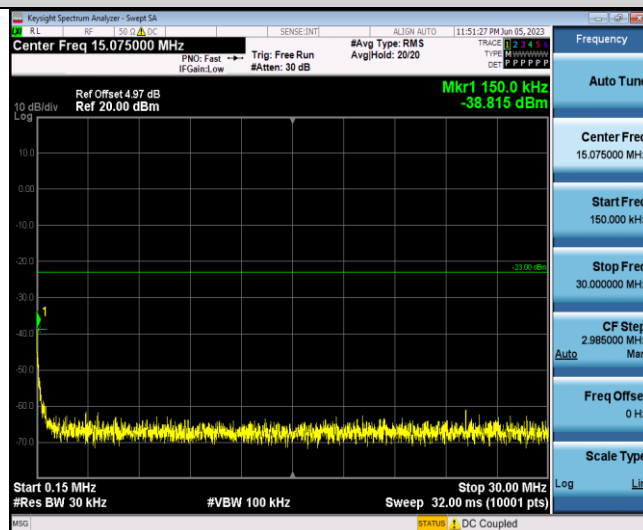
GSM1900-512-1000~18000MHz



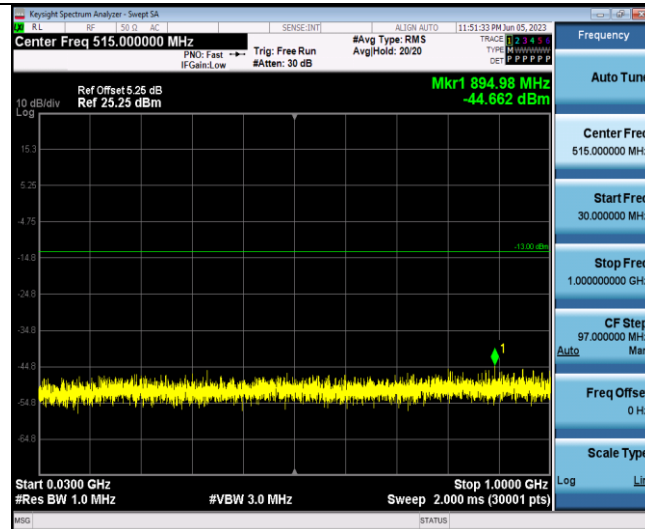
GSM1900-661-0.009~0.15MHz



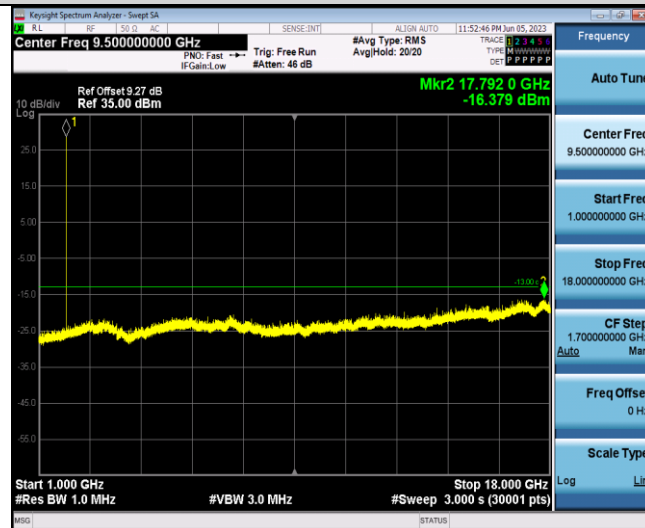
GSM1900-661-0.15~30MHz



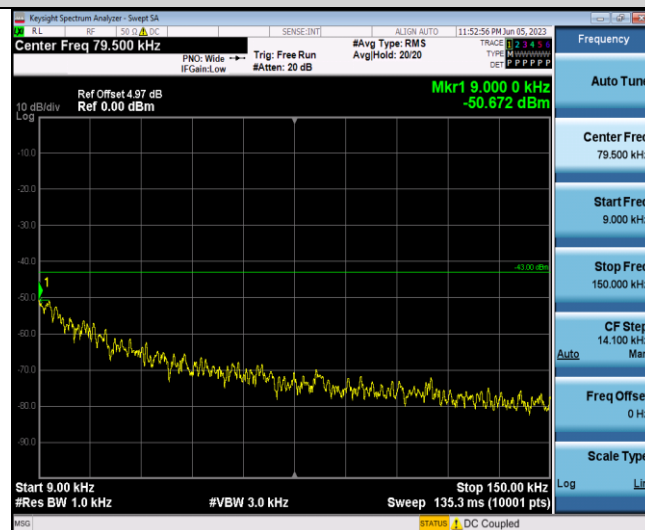
GSM1900-661-30~1000MHz



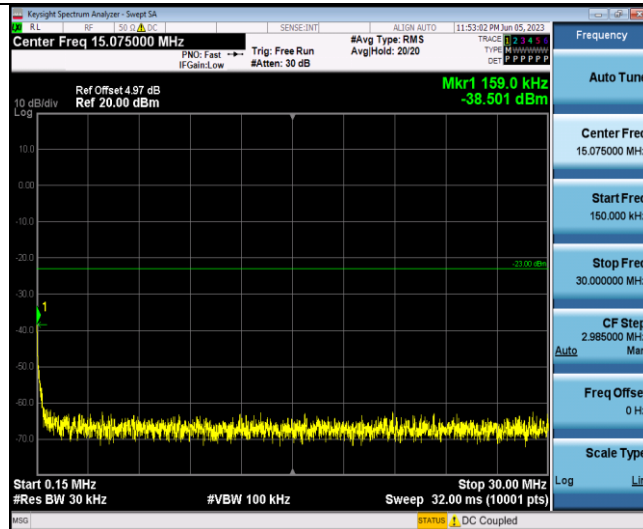
GSM1900-661-1000~18000MHz



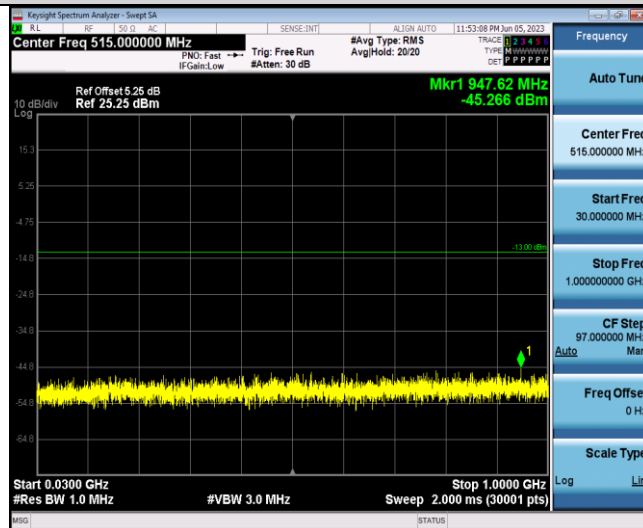
GSM1900-810-0.009~0.15MHz



GSM1900-810-0.15~30MHz



GSM1900-810-30~1000MHz



GSM1900-810-1000~18000MHz



Appendix F: Frequency Stability

Test Result

Voltage								
Band	Channel	PCL	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	5	VL	NT	2.16	0.002621	±2.5	PASS
GSM850	128	5	VN	NT	7.68	0.009318	±2.5	PASS
GSM850	128	5	VH	NT	13.08	0.015870	±2.5	PASS
GSM850	190	5	VL	NT	2.07	0.002474	±2.5	PASS
GSM850	190	5	VN	NT	6.72	0.008033	±2.5	PASS
GSM850	190	5	VH	NT	6.30	0.007530	±2.5	PASS
GSM850	251	5	VL	NT	4.68	0.005514	±2.5	PASS
GSM850	251	5	VN	NT	5.42	0.006385	±2.5	PASS
GSM850	251	5	VH	NT	2.23	0.002627	±2.5	PASS
GSM1900	512	0	VL	NT	17.56	0.009491	±2.5	PASS
GSM1900	512	0	VN	NT	9.40	0.005081	±2.5	PASS
GSM1900	512	0	VH	NT	19.69	0.010642	±2.5	PASS
GSM1900	661	0	VL	NT	4.81	0.002559	±2.5	PASS
GSM1900	661	0	VN	NT	16.50	0.008777	±2.5	PASS
GSM1900	661	0	VH	NT	17.79	0.009463	±2.5	PASS
GSM1900	810	0	VL	NT	15.82	0.008284	±2.5	PASS
GSM1900	810	0	VN	NT	11.78	0.006168	±2.5	PASS
GSM1900	810	0	VH	NT	10.36	0.005425	±2.5	PASS

Temperature								
Band	Channel	PCL	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	5	NV	-30	9.72	0.011793	±2.5	PASS
GSM850	128	5	NV	-20	4.00	0.004853	±2.5	PASS
GSM850	128	5	NV	-10	6.94	0.008420	±2.5	PASS
GSM850	128	5	NV	0	5.17	0.006273	±2.5	PASS
GSM850	128	5	NV	10	6.39	0.007753	±2.5	PASS
GSM850	128	5	NV	20	2.45	0.002973	±2.5	PASS
GSM850	128	5	NV	30	8.33	0.010107	±2.5	PASS
GSM850	128	5	NV	40	9.88	0.011987	±2.5	PASS
GSM850	128	5	NV	50	-1.65	-0.002002	±2.5	PASS

GSM850	190	5	NV	-30	6.10	0.007291	±2.5	PASS
GSM850	190	5	NV	-20	9.30	0.011116	±2.5	PASS
GSM850	190	5	NV	-10	4.23	0.005056	±2.5	PASS
GSM850	190	5	NV	0	10.69	0.012778	±2.5	PASS
GSM850	190	5	NV	10	1.39	0.001661	±2.5	PASS
GSM850	190	5	NV	20	8.04	0.009610	±2.5	PASS
GSM850	190	5	NV	30	10.72	0.012814	±2.5	PASS
GSM850	190	5	NV	40	10.56	0.012623	±2.5	PASS
GSM850	190	5	NV	50	1.32	0.001578	±2.5	PASS
GSM850	251	5	NV	-30	12.69	0.014951	±2.5	PASS
GSM850	251	5	NV	-20	10.14	0.011946	±2.5	PASS
GSM850	251	5	NV	-10	1.81	0.002132	±2.5	PASS
GSM850	251	5	NV	0	0.29	0.000342	±2.5	PASS
GSM850	251	5	NV	10	4.42	0.005207	±2.5	PASS
GSM850	251	5	NV	20	2.26	0.002663	±2.5	PASS
GSM850	251	5	NV	30	8.59	0.010120	±2.5	PASS
GSM850	251	5	NV	40	6.55	0.007717	±2.5	PASS
GSM850	251	5	NV	50	3.58	0.004218	±2.5	PASS
GSM1900	512	0	NV	-30	16.40	0.008864	±2.5	PASS
GSM1900	512	0	NV	-20	18.66	0.010085	±2.5	PASS
GSM1900	512	0	NV	-10	18.11	0.009788	±2.5	PASS
GSM1900	512	0	NV	0	15.92	0.008604	±2.5	PASS
GSM1900	512	0	NV	10	17.37	0.009388	±2.5	PASS
GSM1900	512	0	NV	20	17.24	0.009318	±2.5	PASS
GSM1900	512	0	NV	30	14.85	0.008026	±2.5	PASS
GSM1900	512	0	NV	40	11.33	0.006124	±2.5	PASS
GSM1900	512	0	NV	50	14.66	0.007923	±2.5	PASS
GSM1900	661	0	NV	-30	3.00	0.001596	±2.5	PASS
GSM1900	661	0	NV	-20	4.07	0.002165	±2.5	PASS
GSM1900	661	0	NV	-10	14.40	0.007660	±2.5	PASS
GSM1900	661	0	NV	0	7.30	0.003883	±2.5	PASS
GSM1900	661	0	NV	10	15.34	0.008160	±2.5	PASS
GSM1900	661	0	NV	20	7.04	0.003745	±2.5	PASS
GSM1900	661	0	NV	30	2.16	0.001149	±2.5	PASS
GSM1900	661	0	NV	40	14.66	0.007798	±2.5	PASS
GSM1900	661	0	NV	50	15.11	0.008037	±2.5	PASS

GSM1900	810	0	NV	-30	12.30	0.006440	±2.5	PASS
GSM1900	810	0	NV	-20	25.09	0.013138	±2.5	PASS
GSM1900	810	0	NV	-10	7.65	0.004006	±2.5	PASS
GSM1900	810	0	NV	0	5.94	0.003110	±2.5	PASS
GSM1900	810	0	NV	10	10.04	0.005257	±2.5	PASS
GSM1900	810	0	NV	20	10.88	0.005697	±2.5	PASS
GSM1900	810	0	NV	30	12.82	0.006713	±2.5	PASS
GSM1900	810	0	NV	40	11.11	0.005817	±2.5	PASS
GSM1900	810	0	NV	50	16.05	0.008404	±2.5	PASS